



## SAMPLE MATERIAL

### Middle School Math: Vocabulary Building Lesson and Related Materials

KIPP San Francisco Bay Academy, California

**Topic:** Adolescent Literacy

**Practice:** Vocabulary Instruction

Maureen Ferry, KIPP San Francisco Bay Academy's seventh-grade math teacher, infuses vocabulary learning into her math class weekly. These sample materials include three items: her lesson plan for math vocabulary games, the PowerPoint she uses in class to teach vocabulary words of the week, and a handout with vocabulary words and homework assignments for the week to reinforce vocabulary development in math class. The handout and PowerPoint show eight words for the day, and the lesson plan includes six strategies for teaching vocabulary in class. The PowerPoint is used in conjunction with the vocabulary journal, a schoolwide strategy for vocabulary development. Every student has a vocabulary journal with a chapter for each class and subject area. Students write down definitions of words, draw a picture, and write new insights and create sentences using the new words.

## **LESSON PLAN**

**Maureen Ferry**

**7<sup>th</sup> grade Math**

**January 21, 2009**

**60-minute class period**

**Objective:** By the end of today, students will be able to describe week 19 words and calculate simple interest: consumer, invest, investment, investor, interest, principal, loan, interest rate

**Additional important words:** earn, borrow, lend, owe

### **Agenda:**

#### **DO NOW (5)**

- Students complete two problems in their Do Now packets for the week.

#### **Direct Instruction of vocabulary (15)**

- Teacher uses powerpoint, students use vocabulary journals
- Students enter term in their journal, repeat term, discuss predictions of the definition or prior knowledge, teacher shares one possible description, students write description, students write/draw an example.

#### **Dice Game (10)**

- In pairs, students roll dice to engage in conversation about the words. Based on whatever they roll, students describe the word, give an example, give a non-example, spell the word, or use it in a sentence. If they roll a six, they choose what they want to do with the word.

#### **Taboo (10)**

- In pairs and then as a whole class, students describe vocabulary words to their neighbors and try to get them to guess the word. They cannot use any words on the board to describe the vocabulary.

#### **Sentence Challenge (2)**

- Students will take two minutes to quickly form a grammatically correct sentence that uses as many vocabulary words (old and new) as possible.
- They check in with their partners then share with the class.

#### **Mini Lesson (10)**

- Teacher walks students through simple interest examples.
- Students walk the teacher through the problem.
- Students try problems on their own.

#### **Closer (8)**

- Students complete one interest problem in DO NOW/Closer packet.
- Teacher throws around ball to specific students asking questions about vocabulary and simple interest.



BTEOT, IWBAT spell and  
define week 19 words.

## Term: earn (v.)

- Definition: to gain or receive money based on interest.

- Draw:

“Jameisha earned  
\$25.75 in interest  
from an investment  
she made.”



New Insight:

## Term: borrow (v)

- Description: to take or obtain with the promise of returning or repaying

- Draw: New Insight:

“Ms. Ferry borrowed  
\$100 from the bank  
with the intention  
of paying it back. ”



## Term: invest (v)

- Description: To put money, by spending or purchasing, into something offering potential returns, such as interest.

- Draw: New Insight:

“David invested  
\$1,100 in the stock  
market with the hope  
of earning interest.”



## Term: Investment (n)

- Definition: The thing into which money is put: stocks, a savings account, a house, antiques, etc.

- Draw: New Insight:  
“Carlos’s parents purchased the house as an investment.”



## Term: Investor (n)

- Definition: Any person who puts money into income-producing (money-producing) assets or things.

- Draw: New Insight:  
“Monica officially became an investor when she put money into a savings account.”



## Term: consumer (n)

- Description: Any person who purchases something for personal use or consumption.

- Draw:                      New Insights:

“As a smart consumer,  
Ms. Ferry *always* looks  
for sales .”



## Term: loan (n)

- Description: A sum of money borrowed on the condition of being returned.

- Draw:                      New Insights:

“Most college students  
take out loans to  
help pay for college  
tuition.”



## Term: principal (n)

- Description: The initial amount a person borrows or invests.

- Draw:                      New Insights:

“Yadira invested  
a principal of \$1,200  
in an account that would  
mature in 6 months.”



## Term: interest (n)

- Description: money we earn from investing or owe from borrowing, based on the principal amount and the interest rate.

- Draw:                      New Insights:

“As a smart consumer,  
Ms. Ferry *always* looks  
for sales .”



## Term: interest rate (n)

- Description: the percentage at which money is earned or owed based on the amount you invest or borrow.

- Draw:                      New Insights:

“At a 4% interest rate,  
Kristen earned \$40  
on a \$1000 investment.”





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\_\_\_\_\_

### Be The Change.

#### Words for this week (UNIT 5, WEEK 19)

1. Investment
2. Investor
3. Invest (v)
4. Consumer
5. Loan
6. principal
7. interest
8. interest rate

#### Additional important words: borrow (v), earn (v), lend (v)

##### Homework:

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**Tuesday:** Complete letter pyramids on a separate sheet of notebook paper stapled to your packet or in your notebook. Complete sentences 1-4 below. Complete questions on previous sheet.

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**Wednesday:** Complete questions 5-10 below. Complete crossword puzzle on attached grid. To receive full credit, erase all words!

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**Thursday:** Add new insights to your vocabulary notebook by using each vocabulary word in a sentence or adding a new insight.

##### Monday/Tuesday:

1. Any person who puts money into something in hopes of earning a return is a(n)

\_\_\_\_\_.

2. Mr. Rettberg \_\_\_\_\_ in the stock market to earn a potential return.

3. As a smart \_\_\_\_\_, Kenya bought his game at 20 percent off!

4. Anthony's family made a(n) \_\_\_\_\_ when they purchased their house.

5. Almost all teachers at KIPP took out \_\_\_\_\_ to pay for college.
6. When you borrow money from a bank or other institution, you must repay the principal and any \_\_\_\_\_.
7. The rate at which you earn money for every dollar invested is the \_\_\_\_\_.
8. The first amount you invest or borrow is the \_\_\_\_\_.

Write two of your own sentences using at least two words in each sentence.

9. \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

10.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Write as a decimal:

1.  $45\% =$

2.  $65\% =$

3.  $25\% =$

4.  $\frac{1}{2} =$

5.  $360\% =$

6.  $200\% =$

7.  $150\% =$

8.  $420\% =$

9.  $4.2\% =$

10.  $3.3\% =$

11.  $.5\% =$

12.  $2\frac{1}{2}\% =$

13.  $400.5\% =$

14.  $300\frac{1}{2}\% =$

15.  $520\% =$

16.  $4.4\% =$

17. Explain the difference between sale price and selling price:

18. Explain the relationship between cost, mark-up, and selling price. You may use an equation with the words in your explanation.